

Notice of Allowability	Application No.	Applicant(s)	
	09/674,864	BRIGHTMAN ET AL.	
	Examiner	Art Unit	
	Nabil M. El-Hady	2152	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/23/2005.
2. ☒ The allowed claim(s) is/are 14-21 and 23, now as 1-9.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>3/27/2006</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

N. El-Hady

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gordon E. Nelson, Reg. No 30,093 on March 22, 2006.

2. The application has been amended as follows:

In the claims:

I. In Claim 14:

Claim 14 is amended to read:

Claim 14 (currently amended) An integrated circuit comprising:

a plurality of data stream inputs and/or outputs that receive and/or transmit streams of data;

a plurality of data stream processors that process the streams of data, each data stream processor is programmable and being coupled to a data stream input and/or data stream output and each data stream processor processing a stream of data from the data stream input and/or output, the data stream processor is coupled to as the data stream is received from the data

Art Unit: 2152

stream input and/or transmitted to the data stream output, each data stream processor

including:

a writeable instruction memory containing instructions, and

a control data processor that controls the data stream processor by sequentially

executing instructions from the writeable instruction memory; and

the integrated circuit further comprising:

an aggregator to perform receive aggregation to certain of the data stream processors that receive a data stream and to perform transmit aggregation to certain of the data stream processors that transmit a data stream, so that the aggregated data stream processors cooperate in processing a stream of data;

a context processor that responds to information received from a given data stream processor that is processing a data stream to produce information about the given data stream's context and provide the context information to the given data stream processor; the given data stream processor using the context information to process the data stream; and

wherein the integrated circuit being constructed on one chip.

II. In Claim 15:

Claim 15 is amended to read:

Claim 15 (currently amended) The integrated circuit set forth in claim 14 wherein:

the control data processor is a general-purpose microprocessor that has an industry-standard architecture, whereby programs for the control data processor are developed using standard tools for the architecture.

3. New formal drawings in compliance with 37 CFR 1.121(d) are required in this application because drawings submitted with the application is informal . Applicant is advised to employ the services of a competent patent draftsman outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The new drawings are required in reply to the Office action to avoid abandonment of the application.

4. The following is an examiner's statement of reasons for allowance: None of the prior art in record taken alone or in combination discloses an aggregator on the integrated circuit to perform receive aggregation to certain of data stream processors of a plurality of data stream processors that receive a data stream and to perform transmit aggregation to certain of data stream processors of the plurality of data stream processors that transmit a data stream, so that the aggregated data stream processors cooperate in processing a stream of data, and a context processor producing context information to a given data stream processor and using the context information to process the data stream, whereas the integrated circuit that comprises the plurality of data stream processors, the aggregator, as well as the context processor is being constructed on one chip.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2152

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nabil M. El-Hady whose telephone number is (571) 272-3963. The examiner can normally be reached on 9:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Nabil El-Hady, Ph.D., M.B.A.
Primary Patent Examiner
Art Unit 2152